

## \* NOTICES \*

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DETAILED DESCRIPTION

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## [Detailed Description of the Invention]

[0001]

[Field of the Invention] this invention relates to the flooring made from synthetic resin of the carpet tone used as a floor tile, a long flooring, etc.

[0002]

[Description of the Prior Art] As a flooring used in an office etc., it divides roughly and there are a flooring made from synthetic resin which has a surface makeup layer made from synthetic resin, and a carpet tile in which the fiber pile was implanted. Although the ground a carpet tile is used has occurrence of walk sound also in the characteristic feature of a functional side, such as being few, the first ground is in the appearance by which luxury is directed. however, in one side, dust and the dust with a small carpet tile are [ that it is easy to collect ] expensive also in price difficult [ sufficient depuration ] -- etc. -- it has the problem

[0003]

[Problem(s) to be Solved by the Invention] Though this invention is synthetic resin, the flooring which can express the pattern of a carpet tone is offered.

[0004]

[Means for Solving the Problem] The flooring made from synthetic resin of the carpet tone of this invention is characterized by tinction fiber having the surface makeup layer into which transparence or translucent synthetic resin comes to sink in the fiber aggregates, such as a transparent surface makeup layer which is and carries out and it comes to distribute in translucent synthetic resin, or a nonwoven fabric.

[0005]

[Example] Drawing 1 is a cross section showing the lamination of the flooring of the example of this invention. On the base-material layer 11 which consists of vinyl chloride resin with which the bulking agent etc. was blended, the surface makeup layer 21 and the surface-protection layer 41 are formed in one.

[0006] The transparent fiber 23 which was, carries out and was colored into synthetic resin, such as translucent vinyl chloride resin, is distributed, it comes to support the surface makeup layer 21, and, as a result, the pattern of a carpet tone is expressed. An appearance can be adjusted by adjusting the variance of fiber 23, a length, a size, a color, etc.

[0007] Although what was colored the same color may be distributed as fiber 23, a design-effect is further improved by distributing two or more kinds of fiber 23 colored the different color.

[0008] As fiber 23, polyester, such as nylon, rayon, a polyethylene terephthalate, and a polybutylene terephthalate, a carbon fiber, a glass fiber, etc. are used. About 0.5-15mm is suitable for the length of fiber 23, and 5micro - about 1mm of a size is desirable.

[0009] The surface-protection layer 41 raises the cubic effect of the transparent carpet tone pattern which gives abrasion resistance or is formed in the surface makeup layer 21 by being, carrying out and consisting of translucent vinyl chloride resin, polyester resin, an ultraviolet-rays hardening type resin,

etc. In addition, you may omit, without forming the surface-protection layer 41 in drawing 1 . Although the thickness of each class is arbitrary, about 0.1-0.5mm is [ the base-material layer 11 ] suitable for about 1-5mm and the surface makeup layer 21 for about 1-3mm and the surface-protection layer 41.

[0010] After drawing 2 shows other examples of this invention and sprinkles a pellet 25 on the base-material layer 11, it pushes and hardens a pellet 25 and forms the surface makeup layer 21 in one with the base-material layer 11. It is, it carries out, it is translucent synthetic-resin grain, and it grinds or cuts and a pellet 25 can obtain this, once [ for which tinction fiber 23 is distributed and supported / transparent ] distributing fiber 23 and creating the sheet-like field in synthetic resin. Since such a pellet 25 joins together at random and forms the surface makeup layer 21, the directivity of the orientation of fiber has disappeared and the outstanding design effect is acquired. Moreover, the still complicated design effect is acquired by using combining two or more sorts of pellets containing the fiber of a different color, and the pellet fine-colored the color from which synthetic resin is different.

[0011] In the example of drawing 3 , the joint unification of the same raw material pellet 25 as drawing 2 is carried out by the binder resin 27, the surface makeup layer 21 is formed, and the hardened material of a vinyl-chloride-resin paste etc. is used as a binder resin 27. If the binder resin 27 is fine-colored, the design effect different from the case with drawing 2 will be acquired.

[0012] In the example of drawing 4 , the fine-colored paste of the achromatism or vinyl chloride resin is applied on the base-material layer 11. After having sprinkled the fiber 23 colored on it or distributing fiber beforehand during a paste, After applying this to a base material, a paste is made to harden, a lower layer 29 is formed, the upper layer 43 transparent subsequently which is, carries out and consists of translucent synthetic resin is formed, it unifies, and the surface makeup layer 21 is constituted. It is functioning also considering the upper layer 43 as a surface-protection layer. Since fiber 23 is sprinkled at random also in this case, there is no directivity in the orientation of fiber 23, and a carpet pattern good in design is acquired.

[0013] Drawing 5 is a cross section showing the example of further others of the flooring made from synthetic resin of this invention. monochrome -- or the surface makeup layer 21 transparent to the nonwoven fabric 31 colored regularly or at random in two or more colors in which it was, and it carried out, and it sank into and translucent sinking-in synthetic resin 33 was formed of this sinking-in nonwoven fabric -- the base-material layer 11 top -- a laminating -- it is unified

[0014] Various deformation is possible for the flooring made from synthetic resin of this invention besides the above, it can prepare a surface-protection layer in the flooring shown in drawings 2 -5 further, can increase a cubic effect by performing surface embossing to the flooring shown in drawing 1 , or can use a part of base-material layer as a foaming layer.

[0015] An appearance much more similar to a carpet can be expressed by forming a concavo-convex pattern in a front face especially. For example, as shown in drawing 6 , diameter d of a heights presents the appearance which was extremely similar to the carpet in embossing of a line [ concavity ] 2-5mm when tinction fiber 23 was given to the supported surface makeup layer 21. Moreover, as shown in drawing 7 , the configuration of a pellet (chip) 25 can be maintained and the surface makeup layer 21 which has the same concavo-convex status as drawing 6 can be formed also by fixing a pellet 25 on the base-material layer 11. The pellet 25 is being fixed to the base-material layer 11 with the binder resin 27 which consists of hardened materials, such as a vinyl-chloride-resin paste.

[0016]

[Effect of the Invention] According to this invention, by using colored fiber, fixing this in synthetic resin, and forming a surface makeup layer, the flooring made from synthetic resin of a carpet tone can be manufactured easily, the floor with a high-class feeling can be realized by the low cost, and depuration of a floor and the management are also easy.

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CLAIMS

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[Claim(s)]

[Claim 1] The flooring made from synthetic resin of the carpet tone characterized by having the surface makeup layer which comes to distribute the colored fiber in transparence or translucent synthetic resin.

[Claim 2] The flooring made from synthetic resin of the carpet tone characterized by having the transparent surface makeup layer into which are, carry out and translucent synthetic resin comes to sink at the colored fiber aggregate.

[Claim 3] The flooring made from synthetic resin according to claim 2 whose aforementioned fiber aggregate is a nonwoven fabric.

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1] It is drawing of longitudinal section showing the example of the flooring made from synthetic resin of this invention.

[Drawing 2] It is drawing of longitudinal section showing the example of the flooring made from synthetic resin of this invention.

[Drawing 3] It is drawing of longitudinal section showing the example of the flooring made from synthetic resin of this invention.

[Drawing 4] It is drawing of longitudinal section showing the example of the flooring made from synthetic resin of this invention.

[Drawing 5] It is drawing of longitudinal section showing the example of the flooring made from synthetic resin of this invention.

[Drawing 6] It is drawing of longitudinal section showing the example of the flooring made from synthetic resin of this invention.

[Drawing 7] It is drawing of longitudinal section showing the example of the flooring made from synthetic resin of this invention.

[Description of Notations]

11 Base-Material Layer

21 Surface Makeup Layer

23 Fiber

25 Pellet

27 Binder Resin

29 Lower Layer

31 Nonwoven Fabric

33 Sinking-in Synthetic Resin

41 Surface-Protection Layer

43 Upper Layer

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[Translation done.]